

LOCUS	MAU18263	1665 bp	DNA	linear	BCT 26-OCT-1995
DEFINITION	Mycobacterium avium alkyl hydroperoxidase C (ahpC) gene, complete cds, and OxyR homolog gene, complete cds.				
ACCESSION	U18263				
VERSION	U18263.1 GI:1040852				
SOURCE	Mycobacterium avium				
ORGANISM	Mycobacterium avium Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Corynebacterineae; Mycobacteriaceae; Mycobacterium; Mycobacterium avium complex (MAC).				
REFERENCE	1 (bases 1 to 1665)				
AUTHORS	Sherman,D.R., Sabo,P.J., Hickey,M.J., Arain,T.M., Mahairas,G.G., Yuan,Y., Barry,C.E. III and Stover,C.K.				
TITLE	Disparate responses to oxidative stress in saprophytic and pathogenic mycobacteria				
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 92 (14), 6625-6629 (1995)				
REFERENCE	2 (bases 1 to 771)				
AUTHORS	Yamaguchi,R., Matsuo,K., Yamazaki,A., Takahashi,M., Fukasawa,Y., Wada,M. and Abe,C.				
TITLE	Cloning and expression of the gene for the Avi-3 antigen of Mycobacterium avium and mapping of its epitopes				
JOURNAL	Infect. Immun. 60 (3), 1210-1216 (1992)				
REFERENCE	3 (bases 1 to 1665)				
AUTHORS	Hickey,M.J.				
TITLE	Direct Submission				
JOURNAL	Submitted (07-DEC-1994) Mark J. Hickey, TB & Molecular Microbiology, PathoGenesis Corp., 201 Elliott Ave. W., Seattle, WA 98119, USA				

Query Match 14.1%; Score 235.8; DB 1; Length 1665;  
Best Local Similarity 55.3%; Pred. No. 5.7e-48;  
Matches 506; Conservative 0; Mismatches 397; Indels 12; Gaps 2;

Qy	469	ATTACCGTTTATAGTTATAGGCATGAGCAATAAAGAGTACCGGCCCCACACTCGCCCAGCT	528
Db	682	ATTTCCCACTACACTTATAGGTATGCCCCGATAAGACTTATCAGCCCACGATCGCCGGCCT	741
Qy	529	TCGCACCTTTGTCAACCATCGCAGAATGCAAGCACTTTGGTACTGCTGCCACCAAGCTGTC	588
Db	742	GCGCGCCTTCGTGCGGGTCGCCGAGAAGCGCCAATTCAGCGGTGCCGCAACGGCTTTGGG	801
Qy	589	CATTTTCGAGCCATCCCTCTCCCAGGCACTTGTGCGATTAGAAACAGGCCTGGGAGTTCA	648
Db	802	AGTCAGCCAGTCGACGCTGTCGAGGTGTTGGCGGCGCTGGAGGCGGGGCTGGGCACGCA	861
Qy	649	GCTGATTGAACGCTCCACCCGCAAGGTCATTGTCACCCCAGCGGGCGAGAAGTTGCTGCC	708
Db	862	GTTGGTGGAGCGCTCCACCCGGCGTGTCTTCTTGACACCCCAGGGCGCCGAGCTGCTGCC	921
Qy	709	ATTCGCCAAATCCACCCTTGACGCGGGGAGTCTTTCTCTCTCCACGCCAAGGGCGCCAA	768
Db	922	GCACGCCCAGGCCGTGGTCGAGGCGGCCGACGCTTACCGCGGGCGGGCGGGTTCGAC	981
Qy	769	CGGTTTCGCTCACTGGACCGTTGACCGTAGGCATCATCCCCACGGCGGCTCCTTACATTTT	828
Db	982	GGACCCGTTGCGGGCCGGCATGCGGCTGGGGCTGATCCCCACGGTGGTGCCCTACGTGCT	1041

Qy 829 GCCGTCAATGCTGTCCATCGTGGATGAAGAATATCCAGATCTGGAACCTCACATCGTCGA 888  
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 Db 1042 GCCGACCGTGCTGGCCGGAATCGCCGAACGGCGGCCCGGCTGACCTGCGGGTCACCGA 1101

Qy 889 GGACCAAACCAAGCATCTTCTCGCGTTGCTGCGCGACGGCGCCATCGACGTCGCCATGAT 948  
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 Db 1102 GGACCAGACCGAACGGCTGCTGGCGGTGCTGCGCGAGGGCGCCCTCGACGCGGCGCTGAT 1161

Qy 949 GGCCCTGCCTTCTGAGGCACCAGGCATGAAGGAAATCCCCCTCTACGACGAAGACTTTAT 1008  
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 Db 1162 CGCGCTGCCC GCCGAGACGGCGGGCGTCAACGCGATCCCGATCTACGACGAGGATTTCTGT 1221

Qy 1009 CGTCGTTACAGCTAGCGATCACCCCTTCGCCGGCCGCCAAGACTTAGAACTATCCGCCTT 1068  
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 Db 1222 GCTCGCGCTTCCGCCGGGCCACCCGCTGGCGGGCAAGCGCCGGGTGCCGGCGACGGCGCT 1281

Qy 1069 AGAAGACCTCGATCTGCTGCTTCTCGACGACGGACACTGCCTCCACGACCAAATTGTGGA 1128  
 | |||| | |||| | | |||| | | |||| | | ||||  
 Db 1282 GGCCGACCTGCCGCTGCTGCTGCTGGACGAGGGGCACTGCCTGCGCGACCAGGCGCTGGA 1341

Qy 1129 CCTGTGCCGCCGCGGAGACATCAACCCATTAGCTCCACTACTGCTGTACCCGCGCATC 1188  
 | | |||| | | | | | | | | | | | | | |  
 Db 1342 CGTCTGCCACAAGGCGGGTGTGCGGGCGGAGCTGGCCAAT-----ACCCGGGCCGC 1392

Qy 1189 CAGCCTTACCACCGTCATGCAGCTCGTCGTCGCCGGCCTTGGATCCACCTTGGTCCCAAT 1248  
 | | | |||| | |||| | | | |||| | | | ||||  
 Db 1393 CTCGCTGGCCACCGCGGTGCAGTGCCTGACCGGCGGCCTGGGGGTGACGCTCATCCCGCA 1452

Qy 1249 CAGCGCAATCCCATGGGAATGCACCCGACCAGGACTGGCAACAGCCAACTTCAACTCTGA 1308  
 |||| | | | | | | | | | | | | | | | |  
 Db 1453 GAGCGCGGTCCCGGTGGAGGCGTCGCGCAGCCGGCTGGGCCTGGCCCAGTTCGCCGCGCC 1512

Qy 1309 TGTACCGCAAACCGCCGATTGGATTGGTGTACCGTTCCTCTTCTCTCGCGCCGAAGA 1368  
 | | | | | |||| | | |||| | | | | | | | |  
 Db 1513 GCGCCCGG---GCCGGCGCATCGGCCTGGTGTTCGGCTCGTCGAGCGGGCGCGACGACTC 1569

Qy 1369 GTTCGAACAGTTTGC 1383  
 | | | | |  
 Db 1570 CTACCGCGAGCTGGC 1584